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(71) Applicant: **RIGAKU CORP**

(72) Inventor: SUGIURA KASUMI  
AKUTSU OSAMU  
OZAWA GICHI

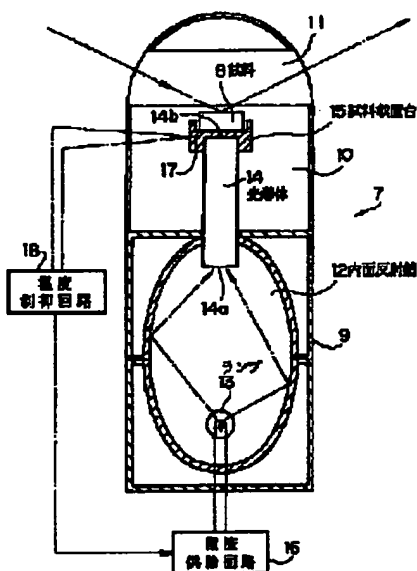
**(54) SAMPLE HEATING DEVICE OF X-RAY  
DIFFRACTION DEVICE**

**(57) Abstract:**

**PURPOSE:** To obtain a sample heating device of an X-ray diffraction device which is capable of obtaining correctly measured data, and of preventing pollution of the atmosphere around the sample.

**CONSTITUTION:** A sample heating device is used in an X-ray diffraction device where the X-ray is made incident on a sample 8, and the X-ray diffracted by the sample 8 is detected. The sample heating device is provided with a light source 13, an elliptical inner surface reflecting mirror 12 to converge the light from the light source 13, and a photo-conductor 14 to guide the light converged by the elliptical inner surface reflecting mirror 12 to the sample 8.

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(71) Applicant: **SHOWA DENKO KK**

(72) Inventor: **HOSODA KICHI**  
**IMAMURA KUNIO**

**(54) TRANSFER MATERIAL FOR THERMAL  
RECORDING**

(57) Abstract:

**PURPOSE:** To transfer images at high speed and with favorable resolution through using laser radiation, by providing on a base film a layer comprising a substance capable of generating heat when being irradiated with laser radiation and a layer comprising a sublimable dye.

**CONSTITUTION:** A layer comprising a substance capable of generating heat when being irradiated with laser radiation (heat generating layer) and a layer comprising a sublimable dye (coloring material layer) are provided in that order on a base film in a laminate form. An

image-receiving sheet is set in close contact with the coloring material layer side of this transfer material, and they are irradiated with laser radiation from the base film side of the transfer material, whereby the dye in the coloring material layer is sublimed to be transferred onto the image-receiving sheet. When a semiconductor laser is used, the substance capable of generating heat is suitably a substance having characteristic absorption in a near infrared region. For instance, a cyanine dye or anthraquinone dye may be used. Such a near infrared-absorbing dye may be applied directly or by using a urea-melamine resin or the like as a binder.

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(71) Applicant: **SHOWA DENKO KK**

(72) Inventor: **HOSODA KIICHI  
IMAMURA KUNIO**

**(54) THERMAL TRANSFER MATERIAL**

**(57) Abstract:**

PURPOSE: To make it possible to transfer clear images at high speed and with high sensitivity and favorable preservation stability, by incorporating a photo-thermal converting substance in an ink film, in a thermal transfer material for thermally transferring a heat-fusible ink to an object of transfer when being irradiated with laser radiation.

CONSTITUTION: When a semiconductor laser is used, a photo-thermal converting substance is suitably a

substance having characteristic absorption in a near infrared region. For instance, a cyanine dye or an anthraquinone dye may be used. Such a near infrared-absorbing dye may be applied directly or by using a urea-melamine resin or the like as a binder. A heat-fusible ink may be one which comprises a pigment, a wax, an oil, additives or the like. The photo-thermal converting substance and the heat-fusible ink are ordinarily applied to a plastic film, in that order. An object of transfer, particularly, a receiving sheet may be a paper, a synthetic paper, a plastic film or the like.

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